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Docket No.: 3313-1072P

Application No. 10/727,590
Amendment filed on October 6, 2006
Reply to Office Action of July 6, 2006

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A 3D animation conversion method using scripts, comprising:
receiving a natural language script;
formalizing the script;
comparing the script with a motion database comprising ~~multiple-multiple~~ motion clips
and a motion index table which is used to ~~obtained~~ obtain the motion clips corresponding to the
script;
retrieving the corresponding motion clips; and
synthesizing a 3D animation according to the retrieved motion clips,
wherein the step of synthesizing a 3D animation further comprises:
indexing cells which contain the starting clips and the ending clips, respectively;
searching possible paths from starting and ending cells; and
synthesizing all the clips along the selected path in the index table.
2. (Currently Amended) The method of claim 1, wherein the step of formalization
formalizing the script comprisingcomprises:
tagging the script into multiple words;
~~determining~~ determining the part of speech of each tag;
determining the idiom of each tag according to the thesaurus; and
transforming the idiom into a formal language.

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3. (Original) The method of claim 2, wherein the idiom is the most popular one among all synonyms of the tag.
4. (Original) The method of claim 2, wherein the formal language is in the XML format.
5. (Currently Amended) The method of claim 1, wherein the step ~~to construct of constructing~~ the motion database ~~comprising~~comprises:
 - receiving motion data;
 - retrieving the ~~coordinate~~ coordinates of each frame;
 - extracting the features of coordinates in each frame; and
 - constructing the index table of the motion data and the corresponding motion clips and motion annotations.
6. (Original) The method of claim 5, wherein the motion clip comprises multiple frames.
7. (Original) The method of claim 6, wherein the motion annotation is in the MPEG-7 DDL format.
8. (Original) The method of claim 6, wherein the motion clip is obtained by partitioning the motion data according to semantics.

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9. (Original) The method of claim 5, wherein the features of a frame are the coordinates of the frame projected to a polar coordinate system.

10. (Cancelled)

11. (Currently Amended) The method of claim ~~10~~1, wherein the path searching is performed by a weighted greedy algorithm.